

Mail Stop Patent Application  
 COMMISSIONER FOR PATENTS  
 P.O Box 1450  
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FORM PTO-1449 (Modified)  
 \ LIST OF PATENTS AND PUBLICATIONS  
 FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT  
 (Use several sheets if necessary)  
 Sheet 1 of 4

In the Application of CHIEN ET AL.

Serial No.: DIV of 09/881,239

Art Unit: Unassigned

Filed: On even date

Examiner: Unassigned

Title: HCV ANTIGEN: ANTIBODY COMBINATION ASSAY

U.S. PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Date	Name	Class	Sub Class	Filing Date
ZL	A1	5,350,671	September 27, 1994	Houghton et al.			
ZL	A2	5,712,087	January 27, 1998	Houghton et al.			
ZL	A3	5,843,752	December 1, 1998	Dasmahapatra et al.			
ZL	A4	5,871,904	February 16, 1999	Kashiwkuma et al.			
ZL	A5	5,990,276	November 23, 1999	Zhang et al.			
ZL	A6	6,171,782	January 9, 2001	Houghton et al.			

FOREIGN PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Publication Date	Country or Patent Office	Class	Sub Class	Translation	
							YES	NO
ZL	B1	WO 93/00365	January 7, 1993	PCT				
ZL	B2	WO 94/01778	January 20, 1994	PCT				
ZL	B3	WO 97/44469	November 27, 1993	PCT				
ZL	B4	0 318 216 B2	May 31, 1989	EPO				

Examiner:

/Zachariah Lucas/

Date Considered:

06/01/2006

EXAMINER: Initial if citation considered whether or not the citation conforms with MPEP609. Draw a line through the citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Title: HCV ANTIGEN: ANTIBODY COMBINATION ASSAY

ZL	B5	0 388 231	September 19, 1990	EPO				
ZL	B6	0 450 931	October 9, 1991	EPO				
ZL	B7	0 472 207 A2	February, 1992	EPO				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Exam. Init.	Ref. Desig.	Description
ZL	C1	Beld et al., "Evaluation of Automated RNA-Extraction Technology and a Qualitative HCV Assay for Sensitivity and Detection of HCV RNA in Pool-Screening Systems," <i>Transfusion</i> 40:575-579 (2000)
ZL	C2	Chen et al., "Human and murine antibody recognition is focused on the ATPase/helicase domain, but not the protease domain to the hepatitis C virus non-structural 3 protein," <i>Hepatology</i> 28:219-224, 1998
ZL	C3	Chien et al., "Diagnosis of Hepatitis C virus (HCV) Infection Using an Immunodominant Chimeric Polyprotein to Capture Circulating Antibodies: Revaluation of the Role of HCV in Liver Disease," <i>Proc. Natl. Acad. Sci. U.S.A.</i> 89:10011-10015 (1992)
ZL	C4	Chien et al., "Use of Recombinant HCV Antigen in the Serodiagnosis of Hepatitis C virus Infection: significant Improvement in HCV Antibody Detection as Compared With the First Generation HCV C100-3 ELISA and the Synthetic Peptide EIA Tests," <i>Journal of Gastroenterology and Hepatology</i> 8:S33-39 (1993)
ZL	C5	Chien et al., "Distinct Subtypes of Hepatitis C Virus Defined by Antibodies Directed to the Putative Core, NS4, and NS5 Region Polypeptides," <i>Virol. Hepatitis and Liver Disease</i> 320-324 (1994)

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Title: HCV ANTIGEN: ANTIBODY COMBINATION ASSAY

Exam. Init.	Ref. Desig.	Description
ZL	C6	Choo et al., "Isolation of a cDNA Clone Derived from a Blood-Borne Non-A, Non-B Viral Hepatitis Genome," <i>Science</i> <u>244</u> :359-362 (1989)
ZL	C7	Choo et al., "Hepatitis C Virus: The Major Causative Agent of Viral Non-A, Non-B Hepatitis," <i>British Medical Bulletin</i> <u>46</u> :423-441 (1990)
ZL	C8	Cruse et al., Illustrated Dictionary of Immunology, CRC Press, Boca Raton FL, 1995, page 76
ZL	C9	Ebeling et al., "Recombinant Immunoblot Assay for Hepatitis C Virus Antibody as Predictor of Infectivity," <i>Lancet</i> <u>335</u> :982-983 (1990)
ZL	C10	Houghton et al., "Molecular Biology of the Hepatitis C Viruses: Implications for Diagnosis, Development and Control of Viral Disease," <i>Hepatology</i> <u>14</u> :381-388 (1991)
ZL	C11	Kotwal et al., "Detection of Acute Hepatitis C Virus Infection by ELISA Using a Synthetic Peptide Comprising a Structural Epitope," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>89</u> :4486-4489 (1992)
ZL	C12	Kuo et al., "An Assay for Circulating Antibodies to a Major Etiologic Virus of Human Non-A, Non B Hepatitis," <i>Science</i> <u>244</u> :362-364 (1989)
ZL	C13	Pereboeva et al., "Hepatitis C epitopes from phage-displayed cDNA libraries and improved diagnosis with a chimeric antigen," <i>J. Medical Virology</i> <u>60</u> :144-151, 2000
ZL	C14	van der Poel et al., "Infectivity of Blood Seropositive for Hepatitis C Virus Antibodies," <i>Lancet</i> <u>335</u> :558-560 (1990)

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/Zachariah Lucas/

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06/01/2006

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Atty Dkt No. 2302-16073.10

PP16073.021

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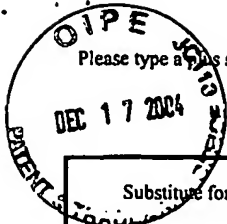
Title: HCV ANTIGEN: ANTIBODY COMBINATION ASSAY

Exam. Init.	Ref. Desig.	Description
ZL	C15	van der Poel et al., "Confirmation of Hepatitis C Virus Infection by New Four-Antigen Recombinant Immunoblot Assay," <i>Lancet</i> <u>337</u> :317-319 (1991).
ZL	C16	Yao et al., "Molecular Views of Viral Polyprotein Processing Revealed by the Crystal Structure of the Hepatitis C Virus Bifunctional Protease-Helicase," <i>Structure</i> <u>7</u> (11):1353-1363 (1999)

Examiner: /Zachariah Lucas/

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PTO/SB/08A (08-00)

Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/643,853
		Filing Date	August 19, 2003
		First Named Inventor	Chien et al.
		Group Art Unit	1632
		Examiner Name	Not Assigned
Sheet 1 of 2	Attorney Docket Number	PP16073.021 (2300-16073.10)	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code <sup>2</sup> (if known)		
ZL	AA	5,683,864		Choo Qui-Lim et al.	11-04-1997

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)			
ZL	BA	PCT	WO 94/25601		Innogenetics NV; Maertens Geert (BE) and Stuyver Lieven (BE)	11-10-1994	

Examiner Signature	/Zachariah Lucas/	Date Considered	06/01/2006
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<sup>2</sup> See attached Kinds of U.S. Patent Documents.  
<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).  
<sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.  
<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.  
<sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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PTO/SB/08A (08-00)

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<i>Complete if Known</i>	
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				Filing Date	August 19, 2003
				First Named Inventor	Chien et al.
				Group Art Unit	1632
				Examiner Name	Not Assigned
Sheet	2	of	2	Attorney Docket Number	PP16073.021 (2300-16073.10)

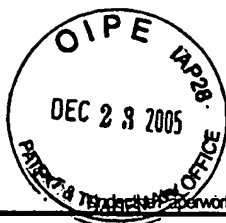
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>1</sup>
ZL	CA	CHIEN et al., "Use of a Novel Hepatitis C Virus (HCV) Major-Epitope Chimeric Polypeptide for Diagnosis of HCV Infection," Journal of Clinical Microbiology, Washington, DC, US, 37(5):1393-1397 (1999)	
ZL	CB	KASHIWAKUMA et al., "Detection of Hepatitis C Virus Specific Core Protein in Serum of Patients by a Sensitive Fluorescence Enzyme Immunoassay (FEIA)," Journal of Immunological Methods, Elsevier Science Publishers B.V., Amsterdam, NL, 190(1):79-89 (1996)	
ZL	CC	NING YANG et al., "Examination of IGM Antibody to Hepatitis C and Analysis on Hepatitis C Patients' Sera," Zhonghua Weishengwuxue He Mianyixue Zazhi, 15(4):254-257 (1995) XP001121826	
ZL	CD	QI ZIBAI et al., "Evaluation of the Capabilities for Detecting Anti-HCV Core and NS3 Antibodies with Two Anti-HGV EIA Kits of the Third Generation," Zhonghua Weishengwuxue He Mianyixue Zazhi, 19(5):433-435 (1999) XP001121825	

Examiner Signature	/Zachariah Lucas/	Date Considered	06/01/2006
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Substitute for form 1449A/PTO		<b>Complete If Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/643,853
		Filing Date	August 19, 2003
		First Named Inventor	DAVID Y. CHIEN et al.
		Art Unit	1632
		Examiner Name	Unassigned
		Attorney Docket Number	PP16073.021 (230-16073.10)
Sheet	1	of	1

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Kind Code <sup>2</sup> (if known)			
	AA				
	AB				
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FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>2</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code* (if known)				
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